ABSTRACT:

The deviation in SH-waves' velocities is expected once the saturation degree in the medium is asymmetrical. Hence, SH-waves' propagation in the porous medium saturated with asymmetry °uid density is studied for the di®usive pro¯les. SH-waves are propagated in similar directions and also opposite directions with the mediums fall into two distinctive groups: insoluble as well as soluble mediums. In similar direction of propagation, low density °uid revokes the di®usive characteristics while high density °uid promotes di®usive attribute. However, the di®usive SH-waves are as well found in the medium saturated with low density °uid when the °uid is asymmetrical in density. In the case of opposite direction of propagation, the recurring SH-waves are found in the medium saturated with low and asymmetry density °uid.